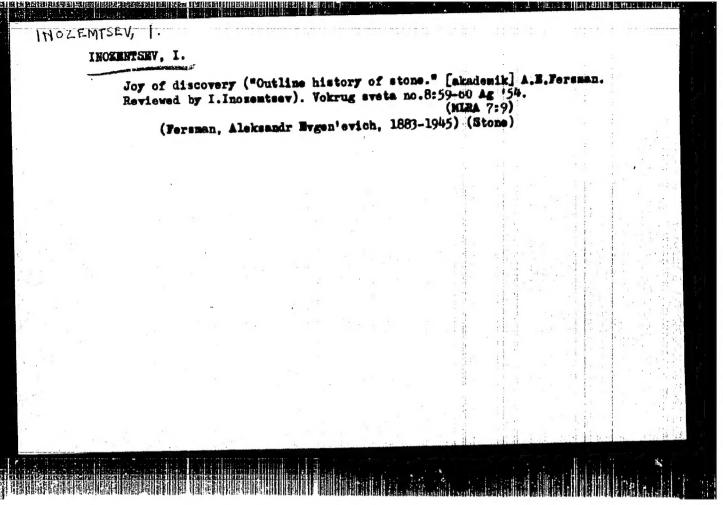
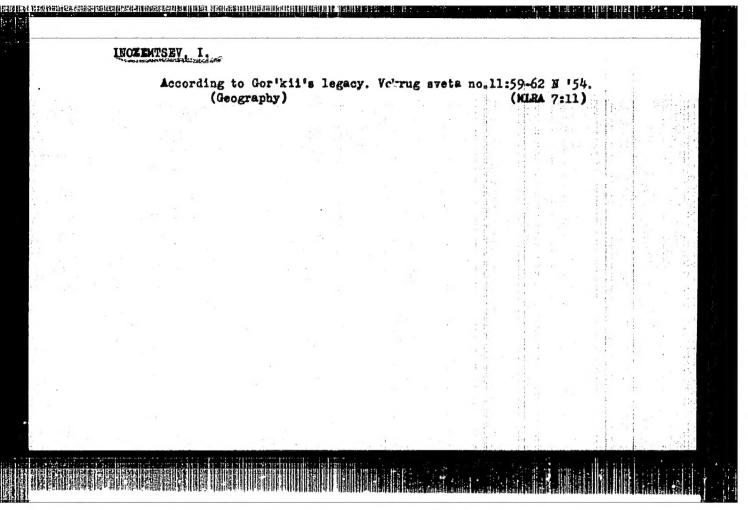
INOZEMTSEV, I.

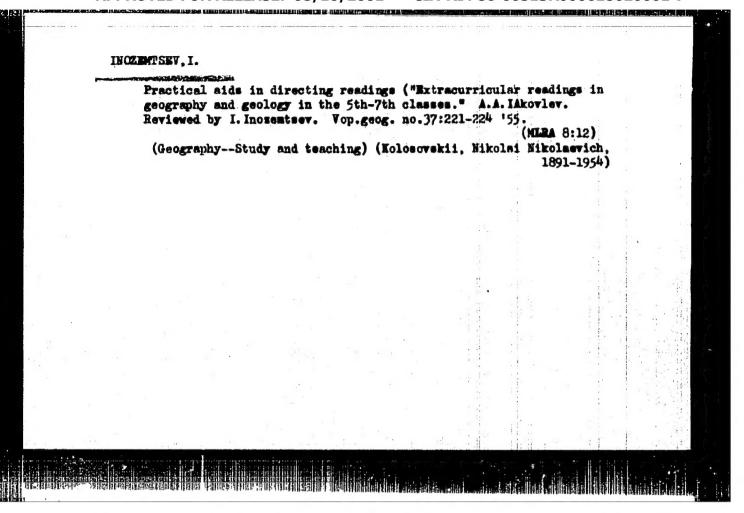
Coal mines and mining - History

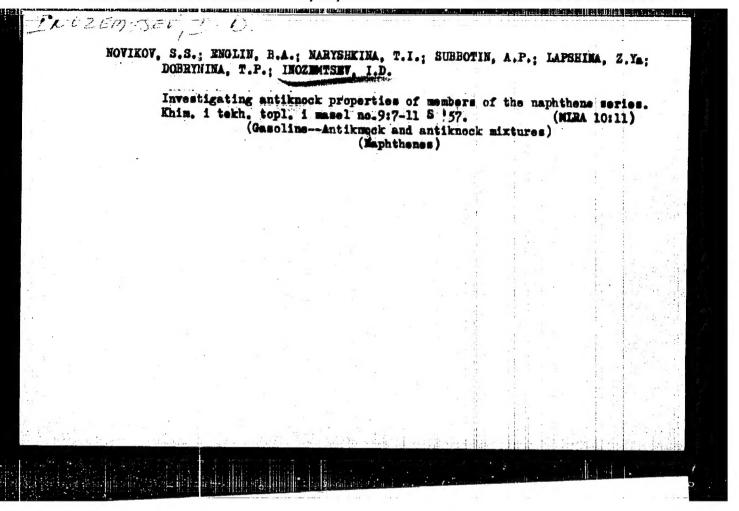
About the "sun stone" and its heroes ("Sun stone." Vols. 1 and 2. I. Vasil'kov, M. TSeytlin. Reviewed b I. Inozamtsev.) Vokrug sveta No. 9, 1952.

Monthly List of Russian Accessions, Library of Congres, December 1952. Unclassified.









z/011/62/019/007/005/005 E112/E453

Lykov, M.V., Inozemtsev, I.D., Karpova, V.M. AUTHORS:

Protection of petroleum tankers by anticorrosion paints

TITLE:

PERIODICAL: Chemie a chemická technologie. Prehled technické a hospodarské literatury, v.19, no.7, 1962, 323, abstract Ch 62-4401. (Lakokras materialy, v.2, no.2,

1962, 34-40)

The resistance of surface coating materials against the action of liquid fuels, particularly petroleum and against corrosion by atmospheric effects, were investigated under laboratory conditions. Techniques of applying anticorrosion paints to the inner surfaces of the tanks and containers were developed, particularly for containers which have to resist the action of fuels and lubricants. The tested materials included stoving enamels and air drying lacquers. A method for sandpractical application tests. blasting the :inner surfaces of the containers was developed and an equipment for their spraying with anticorrosion paint, heated to Card 1/2

Protection of petroleum ...

Z/011/62/019/007/005/005 E112/E453

elevated temperatures, is described. The composition of the coating materials is not given, but it is concluded from certain quantitative data that paints based on vinyl and phenol-formaldehyde resins were used and that they were applied to primer CHS-100. The use of resin "Etinol", prepared from a byproduct of synthetic rubber manufacture (polymers of divinyl-acetylene) also proved of advantage.

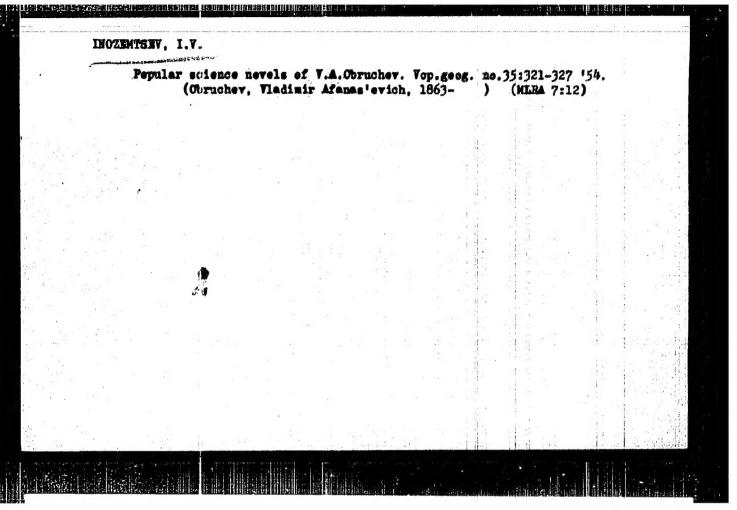
2 diagrammatic sketches, 1 diagram, 1 table, 5 literature references.

Abstracter's note: Complete translation.

Card 2/2

INOZEMTSEV, I. I.			
USSR			
"Using Crumbs of Peat fo Tools." Stanki I Instru	r Cementation of Cutting ment Vol. 15, No. 405, 1	944	
BR 52059019			

ACC NRI AP7000672	(N) SOURCE CODE: UR/0375/66/000/012/0074/0075	
AUTHOR: Teezarev, N. 1	N. (Lieutenant colonel); Inozemtsev, I. S. (Lieutenant colonel)	
ORG: none	**************************************	
TITLE: Improving the	equipment of floating berthe	
SOURCE: Horskoy sborni TOPIC TAGS:	ik, no. 12, 1966, 74-75 gineering, marine equipment, marine, marine equipment,	
10-50 tons, with 4 x 4	positioning while utilizing a minimum of facilities and time. lace the previously used concrete anchor blocks, weighing x 2.2 m metal pontoons with positive buoyancy and weighing	1
10 15 suggested to repl 10—50 tons, with 4 x 4 25—30 tons with balla with water. Instead of with floating supports position floating berth	ase the previously used concrete anchor blocks, weighing as x 2.2 m metal pontoons with positive buoyancy and weighing ast, which can easily be transported and submerged by filling f the presently used demountable connecting bridges, structures are suggested. The suggestions will make it possible to he in a minimum of time and without the help of such facilities.	
10—50 tons, with 4 x 4 25—30 tons with balls with water. Instead of with floating supports position floating berth as floating cranes and	ace the previously used concrete anchor blocks, weighing 4 x 2.2 m metal pontoons with positive buoyancy and weighing ast, which can easily be transported and submerged by filling f the presently used demountable connecting bridges, structures are suggested. The suggestions will make it possible to he in a minimum of time and without the help of such facilities hulks. [GE]	
10—50 tons, with 4 x 4 25—30 tons with balls with water. Instead of with floating supports position floating berth as floating cranes and	ace the previously used concrete anchor blocks, weighing 4 x 2.2 m metal pontoons with positive buoyancy and weighing ast, which can easily be transported and submerged by filling f the presently used demountable connecting bridges, structures are suggested. The suggestions will make it possible to he in a minimum of time and without the help of such facilities hulks. [GE]	
10—50 tons, with 4 x 4 25—30 tons with balls with water. Instead of with floating supports position floating berth as floating cranes and	ace the previously used concrete anchor blocks, weighing 4 x 2.2 m metal pontoons with positive buoyancy and weighing ast, which can easily be transported and submerged by filling f the presently used demountable connecting bridges, structures are suggested. The suggestions will make it possible to he in a minimum of time and without the help of such facilities hulks. [GE]	
10—50 tons, with 4 x 4 25—30 tons with balla with water. Instead of with floating supports position floating berth as floating cranes and SUB CODE: 43/ SUB	ast, which can easily be transported and submerged by filling f the presently used demountable connecting bridges, structures are suggested. The suggestions will make it possible to he in a minimum of time and without the help of such facilities hulks. [GE] BM DATE: none	



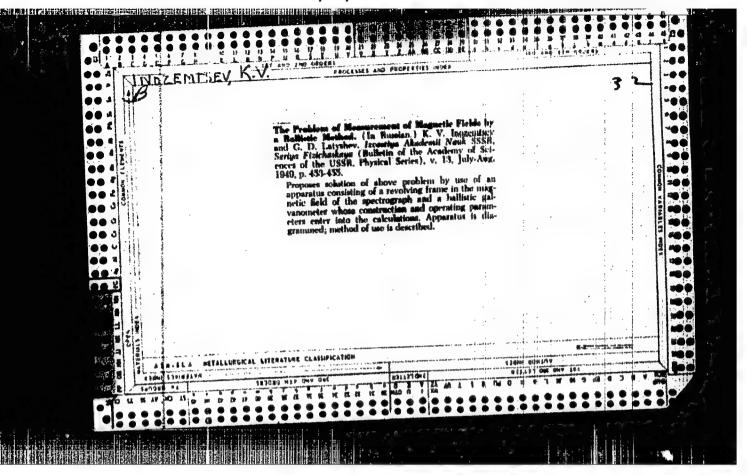
INOZEMISEV, Ivan Vladimirovich; BERDNIKOVA, K.K., red.; VASIL'YEVA,
L.F., lakhn. red.

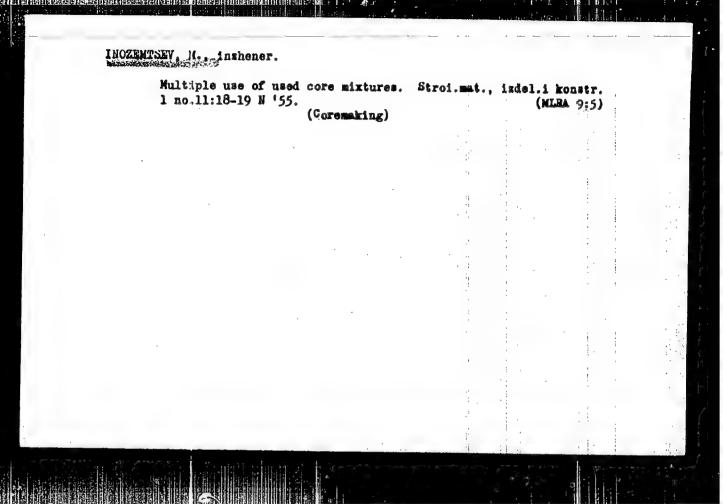
[Alone on the ocean; a discourse on books] Cdn1 v okeane;
beseda o knigakh. Moskva, Gos. Biblioteka SSSR im. V.I.Lenina,
1961. 18 p. (Ocean)

Sergiyenko, V. A.; Ioffe, Yu. K.; Malev, V. A.; Bashilov, A. A.; <u>Inozemtzev</u>, K. F. "The Fine Structure of the Gamma-Lines of RaC!"II, Iz. Leningrad Phys-Tech Inst. Acad Sci. 1949

INOZEHTZEV, K. V.

G. D. Latyshev; I. F. Barchuk



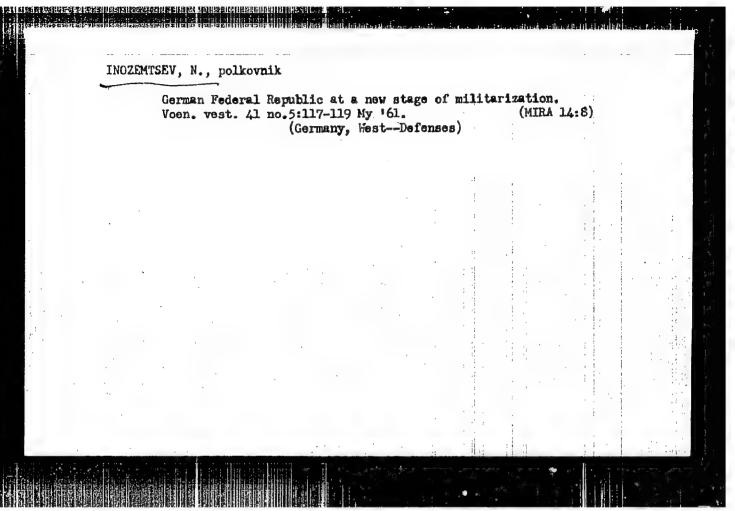


INOZEMTSEV, N.I.; TARUNTAYEV, V. Ye.

Founding

New method of oreparing molds for thinwalled, deep-shelled castings. Lit. proiz., no5, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.



BOGOLYUBSKIY, N.; BORISOV, S.; GRIGOR'YEV, N.; GUSAROV, M.; GUSEV, L.;

ZHAROV, S.; ZHETVIN, N.; ZALOGIN, S.; ZOLOTOV, G.; IHOZEMISEV, M.;

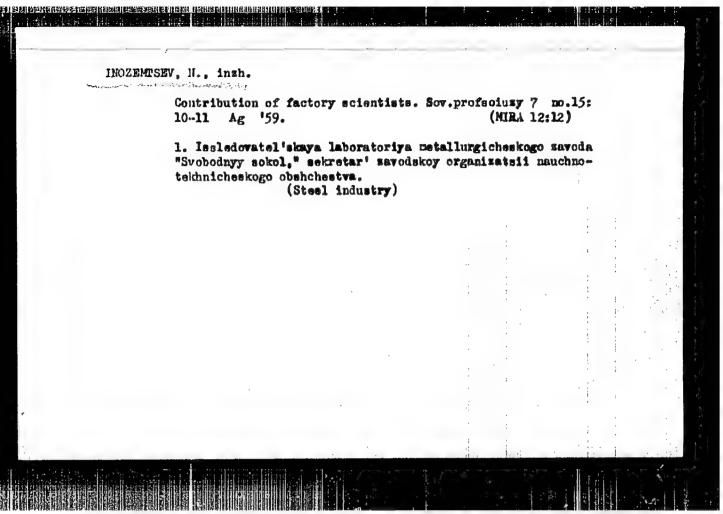
KIEMENF'YEVA, A.; KOMAROV, A.; KOSMACHEV, V.; LAPTEV, V.; LOMONOSOV, V.;

MIKHAYLOV, A.; NOVIKOV, I.; PERTSEV, M.; PROKOPOVICH, P.; ROMANOV, I.;

RUELINSKAYA, R.; SVIRIDOV, G.; SOTNIKOV, G.; SUBBOTIN, A.; TURTANOV, I.;

CHRSHOKOV, S.; CHICHKIN, K.; CHIKHANOV, I.

Grigorii Markelovich Il'in; an obituary. Metallurg 3 no.10:36 0 158.
(MIRA 11:10)
(Il'in. Grigorii Markelovich, 1894-1958)



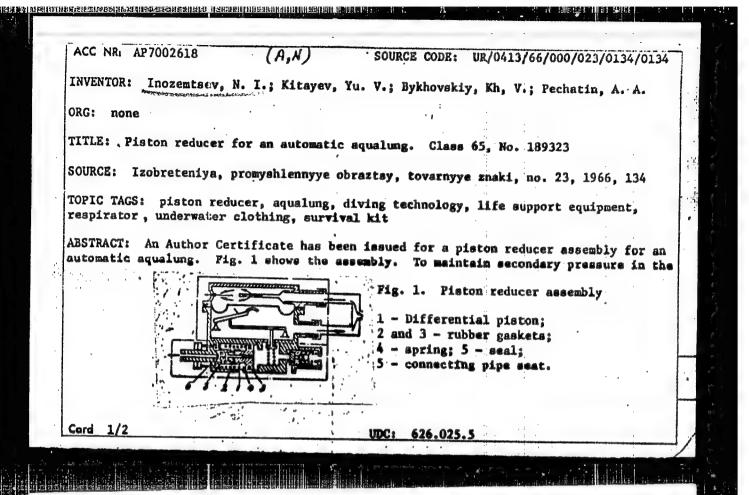
STRUCTURE OF TURBULENT FLAMES (USSR)

INDIEMOS (USSR)

Dubrovskaya, O. N., K. P. Vlasov, and N. I. Inozemtset. IIV: Akademiya nauk SSSR. Otdeleniye teknnicheskikh nauk. Energetika i transport, no. 2, Mar-S/281/65/000 002/003/003

The structure of turbulent gasoline-air flames was studied at flow velocities of 25 to 150 m/sec and 0.8 to 1.8 excess air in a burner 300 mm in diameter, equipped with a conical flame holder 22 mm in diameter. Simultaneous measurements were and by Schlieren photography and spectrographic recording of radical emission. The results showed that the reaction takes place stepwise in sections having a length times less than in laminar flames, indicating a basic difference between turbulent rate is less pronounced in turbulent than in laminar flames. The cine of intensive chemical reaction is preceded by a preheating zone which contains combustion procombustion products corresponds to 82% conversion, rather than the 50% postulated by the model based on laminar flame pulsations.

Card 1/1



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AUTHOR:

Inozemtsev N. N.

SOV/147-58-4-9/15

TITLE:

Investigation of the Normal Velocity of the Flame Spread in the Case of the Hydrocarbon Fuels (Issledovaniye

normal'noy skorosti rasprostraneniya plameni

uglevodorodnykh topliv)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya

tekhnika, 1958, Nr 4, pp 72-80 (USSR)

ABSTRACT: The article gives the results of the experiments carried out by the author in order to determine the influence of: the composition of the air-fuel mixture (α), the initial temperature and pressure upon the rate of spread of the

flame of the following fuels: propane, benzine and

kerosene. The normal velocity of the propagation of the flame was determined by employing Bunsen type burners in the apparatus whose essentials are given in Fig 1 and are

as follows: 1 - pressure chamber; 2 - fuel can;

3 - indicator; 4 - burner; 5 - heater; 6 - throttle; 7 - fuel feeder; 8 - throttling valve; 10-13 - flow meters; 14-16 - pressure controls; 17 - inspection windows. The apparatus could be used at atmospheric pressure as well as with reduced pressures (partial vacuum) and permitted

Card 1/5 wide variation of the initial temperature of the fuel

SOV/147-58-4-9/15 Investigation of the Normal Velocity of the Flame Spread in the Case of the Hydrocarbon Fuels

mixtures (up to ca 500° C). The burner contained a nozzle shaped according to Vitoshynski's formula, and produced a uniform velocity field at the edge. Fig 2 (a,6) shows the photographs of the flame (nozzle diameters 8 and 10 mm) which are seen to be right-angled cones. Fig 2B shows the flame of a lean mixture (excess of air) and at a low pressure and its shape is no longer conical. if W is the velocity of the mixture issuing from the burner and α^0 is the semi-vertical angle of the cone, the normal velocity of the propagation of the flame $\dot{U}_{\rm H}$ is given by Eq (1). On the other hand, considering the volume flow of the mixture, this velocity is also given by Eq (2), where $\mathbf{F}_{\mathbf{n}\mathbf{N}}$ - is the surface of flame cone.

Fig 3 shows the comparison of the results obtained from these two formulae plotted against the velocity of the fuel stream W. Below the values of W of 1.2 to 1.5 m/sec, Eq (2) gives rapidly falling values of $U_{\rm H}$, while those

from Eq (1) remain sensibly constant. Obviously, at the Card 2/5 base of the flame cone there is some heat transfer from

SOV/147-58-4-9/15

Investigation of the Normal Velocity of the Flame Spread in the Case of the Hydrocarbon Fuels

the flame to the walls of the nozzle and thus the flame-cone surface must be affected by this, i.e. Eq (2) is less reliable than Eq (1). Hence, it may be concluded that U_H does not depend upon W. Fig 4 shows dependence of U_H on the composition of the mixture (α) at various pressures (from 1 atm to 0.1 atm). As the pressure decreases, U_H increases according to the relation $U_H \sim P^{-C \cdot 3}$ (if the temperature of the mixture remains constant). For P = 1.0 atm the results agree with those of Refs 1 and 2. Figs 5 and 6 show dependence of U_H (benzine and air mixture) on the initial temperature and pressure for various mixture strengths (α is the coefficient of the air excess) and this is summarized in Fig 7 as $U_H = f(P)$ for the same strengths of the mixture. Following Ref 3 the dependence of U_H upon P may be expressed as:

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Investigation of the Normal Velocity of the Flame Spread in the Case of the Hydrocarbon Fuels

where \checkmark - effective order of the reaction, and since from experiments we get $U_H \sim P^{-m}$, therefore $\checkmark = 2-2m$ i.e. for the benzine-air mixture we get $\checkmark = 1.5$ to 1.75. Thus, as the initial temperature of the mixture T_1 increases \checkmark tends to 2. This shows an excellent agreement with Ref 4. Fig 8 shows the effect of the initial temperature of the mixture on U_H for various values of the mixture strength and at the same pressure (1 atm) and it is seen that as the temperature increases U_H grows more intensively. The relation may be expressed by the formula $U_H \sim T_1^{1.8}$ (T_Y in 0 K). Fig 9 shows the relation $U_H = f(t_1)$ at P = 1 atm and $\alpha = 0.95$ for two

fuels: benzine and kerosene, and compares the experimental data with the theoretical relation (Eq 1') developed by Zeldovich, Semenov and Frank-Kamenetskiy The agreement is perfect.

Card 4/5

SOV/147-58-4-9/15

Investigation of the Normal Velocity of the Flame Spread in the Case of the Hydrocarbon Fuels

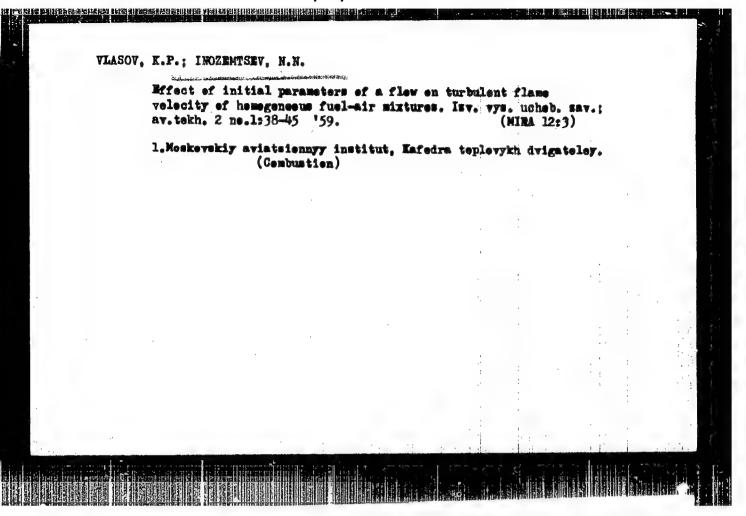
There are 9 figures and 5 references, 3 of which are Soviet, 2 English.

ASSOCIATION: Kafedra teplovykh dvigateley (Chair of Heat Engines)

Moskovskiy aviatsionnyy institut (Moscow Institute of
Aeronautical Engineering)

SUBMITTED: May 24, 1958

Card 5/5



8/170/59/002/10/008/020 Inozemtsev, N. N. AUTHOR: B115/B007 The Influence Exerted by the Initial Temperature and by Precsure Upon the Normal Propagation Velocity of the Flame of TİTLE: Various Hydrocarbon - Air Mixtures Trizhenerno-fizicheskiy zhurnal, 1959, Vol 2, Nr 10, PERTODICAL: pp 52-56 (USSR) The author already previously investigated the normal flame velocity of gasoline and kerosine (Ref 1). In the present paper the normal propagation velocities un of the flames of different ABSTRACT: motor fuels are compared, the dependence of un on pressure at various initial temperatures T1 in the heating of the mixture are precisely given, and the temperature range under investigation is extended to 450°C. The normal flame velocity was dotermined by the Bunsen burner method. The results obtained by comparing the normal velocity of flame propagation in mixtures of air with gasoline, kerosene, and T-5% (a fuel for Diesel engines with a specific weight of about 0.85) are given (Fig 1). The experimental dependence of un on the temperature T1 found for various fuels was compared with the theoretical values ca Card 1/2

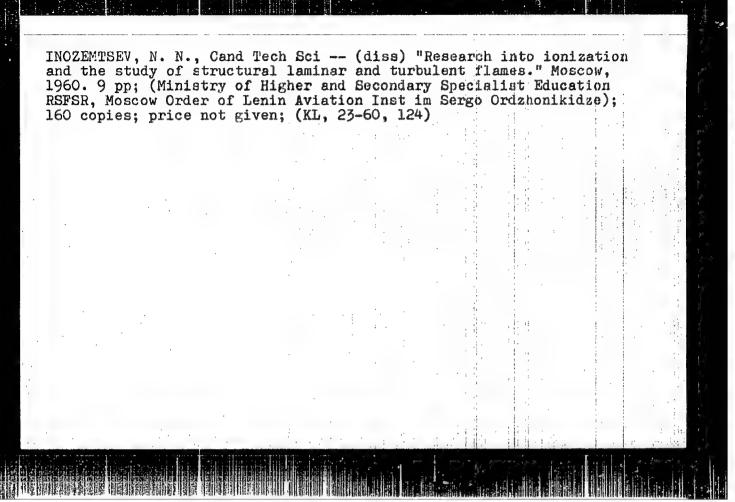
The Influence Exerted by the Initial Temperature and by Pressure Upon the Normal Propagation Velocity of the Flame of Various Hydrocarbon - Air Mixtures

S/170/59/002/10/008/020 B115/B007

culated according to the theory of heat by Zel'dovich, N. N. Senenov, and Frank-Kamenetskiy. The experimentally found function $u_n = f(t_1)$ for motor fuels is accurately determined by the theoretical temperature dependence for a bimolecular reaction according to the theory of heat (Fig 2). The dependence of the normal propagation velocity of the flame on pressure at various temperatures t_1 for mixtures of gasoline with air (Fig 3) and the dependence of the normal—and of mass velocity of combustion on pressure for various initial temperatures of heating (Fig 4) is given. There are 4 figures and 6 references, 3 of which are Soviet.



Card 2/2



31303 \$/124/61/000/010/038/056 D251/D301

11.7430

AUTHORS:

Vlasov, K.P. and Inozemtsev, N.N.

TITLE:

Investigating ionization in laminar and turbulent

streams

A NATIONAL DESIGNATION OF THE PROPERTY OF THE

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 10, 1961, 89, abstract 10 B630 (V sb. 3-e Vses. soveshchaniye po

teorii goreniya, v. 1, M., 1960, 60-71)

TEXT: Experimental measuring of the ionization of propaneair and benzo-air flames was carried out by means of a diodal sensor in the form of a two-channel ceramic with fixed receiver-electrodes. The ceramic served as an insulator, the electrodes touched the particles of the flame only with their end surfaces. The ionization current was amplified by a single-valve amplifier and then applied to the intake of the amplifier of a cathode impulse oscillograph 25 N (251). The sensor was moved by hand in the flame with a velocity of 1-2 m/sec or else pneumatic streaming of the flame was appl-

Card 1/3

31303 S/124/61/000/010/038/056 D251/D301

Investigating ionization...

ied to the sensor with a velocity of 10-20 m/sec. The outer diameter of the ceramic was 1 mm for a laminar flame and 3 mm for a turbulent flame. The investigation showed that in all cases the speed of ionization was proportional to the speed of chemical reaction. The concentration of electrons directly behind the flame front is approximately 500 times less than in the front itself. With a . 0.9 and the pressure p=1 atm, the concentration of electrons in the front of a laminar flame is approximately 2×10^7 cm⁻³. In the turbulent flame a wide zone of non-equilibrium ionization was discovered, within which bumps of the ionization current occur. On increasing the pressure from the stabilizer, the breadth of this zone increases, but the height decreases. The maximum ionization in the turbulent flame is 10 times less than in the laminar flame, other conditions being equal. Detailed investigation of the ionization showed that in the turbulent flame there are no laminar fronts, self-ignition and combustion proceed within the wide zone of chemical reaction in discrete foci-moles having various dimensions. The position of the front boundary of the zone of reaction in these experiments depended

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Investigating ionization...

31303 S/124/61/000/010/038/056 D251/D301

only upon the initial parameters of flow. The authors present the turbulent flame as created from the zone of heating where there is intensive mingling of the products of combustion with the active mixture, the zone of chemical reactions, and the zone of the products of combustion with partial burning. In conclusion it is deduced that in the turbulent flame, the definitive processes are turbulent diffusion, kinetics of the chemical reactions and the temperature. Abstracter's note: Complete translation

Card 3/3

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8/024/60/000/02/009/031 E081/E135

11.1000 AUTHOR:

Inozemtsev, N.N. (Moscow)

TITLE:

Ionisation in Laminar Flames

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, Nr 2, pp 59-66 (USSR)

ABSTRACT: Existing methods of investigating ionisation in flames are reviewed and their limitations are pointed out. In the present paper, a method of studying flame ionisation using a two-contact gauge is described and data are obtained for hydrocarbon-air bunsen flames with different initial conditions. The two-contact gauge, supplied with constant voltage from a battery, consists of a two-channel ceramic with internally inserted steel conductorcontacts which come in contact with the ionised flame particles only at their end surfaces. The apparatus is shown in Fig 1. Fig la - basic circuit for measuring ionisation in flames: 1, two-contact gauge; 2, single valve amplifier; 3, semiconductor slide wire; 4, regulating resistance; RM, measuring resistance; b, supply battery for gauge. Fig 1b - frequency

characteristics of the circuit: B, amplitude

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S/024/60/000/02/009/031 E081/E135

Ionisation in Laminar Flames

characteristics of the circuit; 1, input resistance of oscillograph 1:1; 2, input resistance of oscillograph 75 ohms. The linear part of the amplitude characteristic is the working region, from which the input voltage and ionisation current are determined

 $h_{outp} \rightarrow U_{inp}, \quad I_i = \frac{U_{inp}}{R_M}$

Fig 2 shows the volt-amp characteristics of a propaneair flame: a-at the flame front (gauge diameter 1 mm, $t_1=20$ °C, $\alpha=0.9$); b-in the combustion products (gauge diameter 3 mm, $t_1=20$ °C, $\alpha=0.9$). For supply voltages up to 20, the current is proportional to voltage; above about 35 V saturation begins to be evident. Fig 3 shows typical oscillograms of the ionisation current and disposition for shooting through the bunsen flame: a-in the flame front (gauge diameter 1 mm, $U_{\delta}=4.5$ V, $R_{M}=1.2$ Megohm); b-in the combustion products (gauge diameter 3 mm, $U_{\delta}=70$ V, $R_{M}=49.2$ Megohm). Fig 4 shows the dependence of current

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8/024/60/000/02/009/031 8081/E135

Ionisation in Laminar Flames

and width of non-equilibrium ionisation zone in the laminar flame front on the initial parameters of the mixture: a - propane t₁ = 20 °C, p = 1 atm, U₀ = 13 V (gauge diameter 1 mm); 6 - propane, t₁ = 20 °C, p = 1 atm; 6 - propane; 2 - propane and benzene (h~1~T₁0.53); d - propane, t₁ = 20 °C, a = 0.9 ($\alpha \sim p^{-1}.3$); e - propane, t₁ = 20 °C, a = 0.9 (gauge diameter 1 mm, U₀ = 13 V, I~pl.3). The concentration of electrons in the front of the laminar flame for the hydrocarbons investigated and for a ≈ 0.9 , p = 1.0 atm and t₁ ≈ 20 °C, is about 2.2 x 10². 1/cm³. The velocity of production of electrons in flames under normal conditions and a = 0.9 is equal to q = 17.10¹? per cm³. sec, and it depends on pressure according to q \sim pl.93. The coefficient of recombination $\beta = 3.3 \times 10^3$ cm³/sec and $\beta \sim p^{-1}.7$. The electron concentration in the combustion products immediately behind the flame front under normal conditions is approximately 0.47 x 105 per cm³, about 500 times less than in the flame front. The velocity of generation of electrons is about 0.7 x 10¹⁴ per cm³. sec and the

Card 3/5

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Ionisation in Laminar Flames

coefficient of recombination $\beta \approx 3.10^{l_{\uparrow}}$ cm³/sec. width of the zone of non-equilibrium ionisation 81 under normal conditions and a \$ 0.9 is about 0.2 mm (Figs 46 and &), and depends on the initial parameters of It is possible to show that the velocity the mixture. of electron generation in the flame front is proportional to the chemical reaction velocity as follows. The formula (1) represents the normal velocity of the flame propagation UH, according to A.G. Prudnikov, for the case of heat evolution as a function of distance in In this formula Φ_{max} is the maximum the flame front. heat evolution, $\omega(clT)$ is the chemical reaction velocity, $\Phi_{\max} \sim \omega(\tilde{c}_1 T)_{\max}$, on is the width of the laminar flame front, ρ_1 is the initial density of the mixture, T_1 and T_2 are the initial and final temperatures. Knowing the experimentally determined dependence of the normal velocity on the initial parameters of the mixture (Ref 6) and putting the value of qmax and δ_1 in (1) in place of δ_{max} and δ_{R} , the ratio of the experimental UH to the theoretical (k) can be

Card

8/024/60/000/02/009/031 B081/E135

Ionisation in Laminar Flames calculated:

 $k = \frac{U_{\text{H}^{c}p}\rho_{1}(T_{2} - T_{1})}{\sqrt{2\pi} q_{\text{max}} \delta_{1}}$

Fig 5 shows the value of k for various initial parameters of the mixture. The constancy of k with the change in constitution of the mixture, with pressure and initial temperature, shows that heat evolution (or reaction velocity) is proportional to the velocity of electron generation in the flame front, and since q ~ I the ionisation current is proportional to the chemical reaction velocity. There are 5 figures and 7 references, of which 5 are Soviet and 2 are English. The paper is a continuation of previous work (Ref 6).

NOTE: The quantity a is not defined in the paper, but

it may be the coefficient of air excess in the mixture.

Card 5/5

SUBMITTED:

September 29, 1959

80956 5/024/60/000/03/022/028 E081/E441

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AUTHORS: TITLE:

Vlasov, K.P. and Inozemtsev, N.N. (Moscow) The Feasibility of Investigating the Fine Structure of Turbulent Flames by Means of the Resistance

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, Nr 3, pp 166-170 (USSR) In Ref 1, a resistance thermometer was used to

ABSTRACT:

investigate temperature fluctuations in a turbulent flame. The sensitive element of such a thermometer cona fine platinum or tungsten wire. On instanta transferring the wire from a medium at tempere Ti the heat balance equation is Eq (1), where mass of the wire, c the heat capacity and a the coefficient of heat emission. The solution of Eq (1) is Eq (2), where TH is the temperature of the wire, t is time and T is the time constant of the wire. This equation corresponds to a sudden change in temperature but if in a flame there is a relatively large zone with intermediate temperature, the heat balance is expressed by Eq (3) of which the solution is Eq (4);

Card 1/3

The FeaAPPROVED FOR RELEASE: 08/10/2001 S/0214 BDP86 00513R000618620001-7 Flames by Means of Investigating the Fine Structure of Turbulent wire. The time of intersection

to is the time of intersection of the front by the wire. The two solutions (2) and (3) are compared in Fig 1. (Change of relative temperature of the wire with time for various ratios of the time of intersection of the front to the time constant of the wire.) With the aid of Fig 1 and 2 (Fig 2: Determination of the errors of finding "defects") the uncertainties of the method used in Ref 1 to detect the "defects" (regions where the curve $T_H = f(t)$ deviates from the normal exponential curve (2)) are evaluated. The determin of the mean temperature for a rectangular and a trapezoidal profile (Fig 3) is also considered. Experiments were carried out with a propane air bunsen The determination flame using a resistance thermometer and the apparatus described in Ref 1. Fig 4 shows some of the temperature records (oscillographic temperature records with a resistance thermometer in the cross-section of a bunsen flame at different traverse velocities W: a - tungsten wire, diameter 15μ; b - tungsten wire, diameter 5μ)

Card 2/3

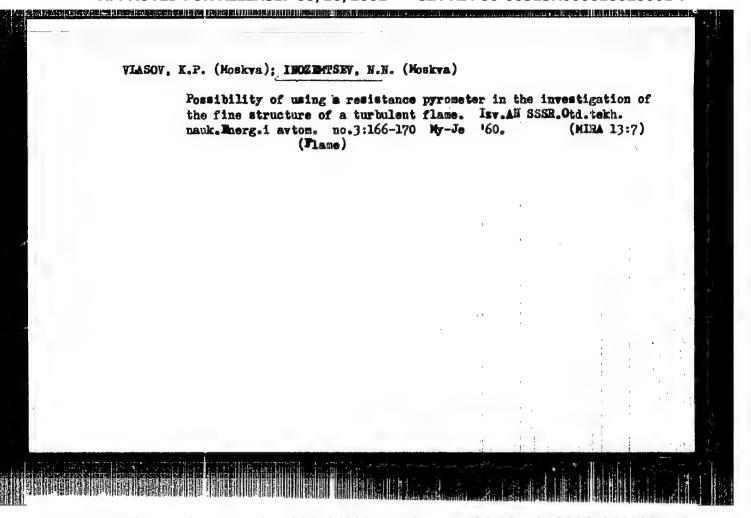
80956 \$/024/60/000/03/022/028 E081/E441

The Feasibility of Investigating the Fine Structure of Turbulent Flames by Means of the Resistance Thermometer Method

and indicates the very considerable effect of the traverse velocity. The effect of the time constant of the wire on the shape of the output wave may be shown by means of the circuit of Fig 5. (Fig 5: a and b -Input and output impulses; B - scheme of model arrangement, 1 - amplitude limiter, 2 - rectifier, 3 - integrating circuit, 4 - resistive load.) Fig 6 shows the input and output pulses of a square and trapezoidal wave with a time constant \$20.5 x 10-3 sec. approximately the same as that of the 5 µ diameter wire used in Ref 1. It is concluded that resistance thermometers with wire $> 3 - 5 \mu$ diameter are unsuitable for investigating the fine structure of turbulent flames because they do not detect zones with intermediate temperature less than 6 to 10 mm in size. 6 figures and 1 Soviet reference.

SUBMITTED: May 15, 1959

Card 3/3



S/262/62/000/004/003/024

1014/1252

11.7200 **AUTHOR:**

Inozemtsev, N. N.

TITLE:

Ionization in laminar flames

PERIODICAL:

Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1962,27, abstract 42.4.149. In collection

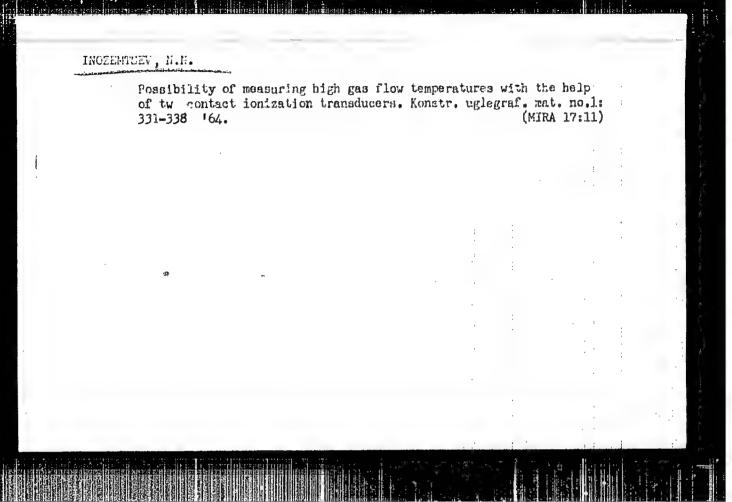
"Stabilizatsiya plameni i razvitiye protsessa sgoraniya v turbulenti, potoke". M.,

Oborongiz, 1961, 149-170

TEXT: A laminar Bunsen flame was investigated by intersection with two contact transducers. The ionization current and the width of the high ionization zone were measuerd. The ion and electron concentrations, rate of electron formation and coefficient of molecular recombination were measured. It was established that the width of intense ionization at the front of the flame increases with deviation of the mixture composition from $\alpha = 0.9$. The ionization and normal propagation rate of the flame increase with combustion temperature. A relationship between ionization and the process of chemical reaction at the front of the flame is indicated. Proportionality between heat generation and rate of electron formation at the front of the flame was established the coefficient proportionality for hydrocarbon-air flame being 2×10^3 . The presence of thermal ionization in combustion products was established. There are 21 figures and 6 references.

[Abstracter's note: Complete translation.]

Card 1/1



INOZEMTSEV, H. P.

Open-Hearth Process

Practice of evaporative cooling of open-hearth furnaces. Za ekon. top. 9 no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

INOZE MISEY, N.A.

130-9-1/21

AUTHORS: Inozemtsev, N.P., Sokol, Ya. I., Rysev, I.P., Tarasenkov, D.A.

Organisation of Production Quality Control (Ob organisatsii kontrola kachestva produktsii) TITLE:

PERIODICAL: Metallurg, 1957, Nr 9,

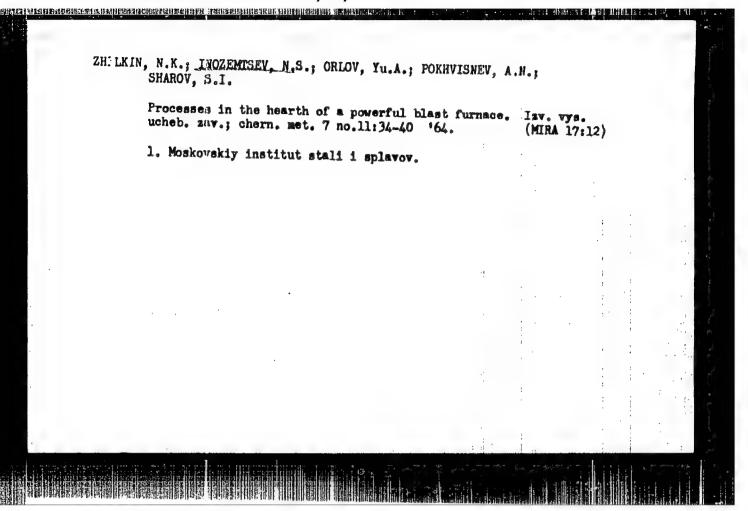
ABSTRACT: This is a contribution to discussions on the present shortcomings and desirable changes in quality control organisation in the Soviet iron and steel industry. The present organisation according to which a special department is responsible for seeing that instructions have been correctly carried out at each stage of the production process is considered harmful since it encourages an irresponsible attitude on the part of the operators and requires a very large control organisation.
As an example the number of reports of various types of incorrect procedure at the "Serp i Molot" works are given. A further criticism is that the present organisation is on a shop basis, thus sometimes operating contrary to the interests of the enterprise as a whole. A two-stage reorganisation is recommended: review of the activity of each control worker and preparation for his work to be undertaken by a production Card 1/2 worker, the few remaining control workers to be assembled

POKHVISNEV, A.N.; SHAROV, S.I.; INCEDITARY N.S.

Desulfuration of cast iron in the ladie by liquid blast-furnace elag. Stal' 22 no.6447-490 Je '62. (MIRA 16:7)

(Cast iron-Notallurgy)

(Desulfuration)



INOZYMTSEV, O. I.

1 Jul 53

USSR/Mathematics - Approximation

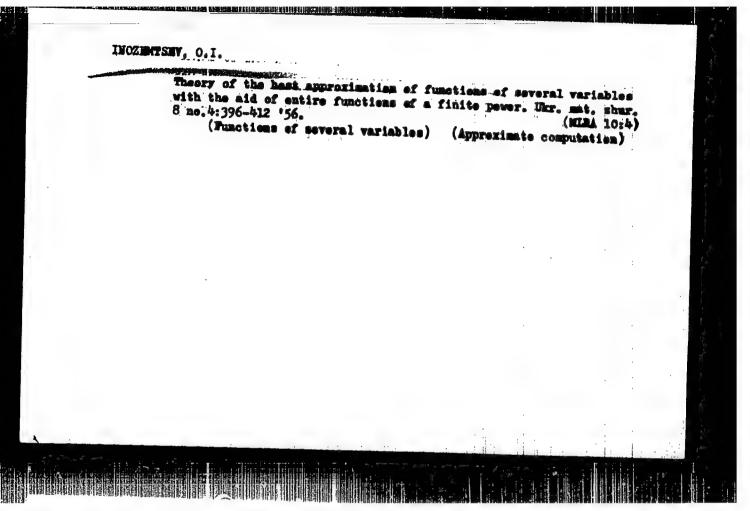
CREATE HAD BELLEVILLE TO THE THE PARTY OF TH

"Theory of Best Approximation of Functions of Many Variables by Means of Intersl Functions of Finite Degree," O. I. Inozentsev, Khar kov Polytech Inst im Lenin

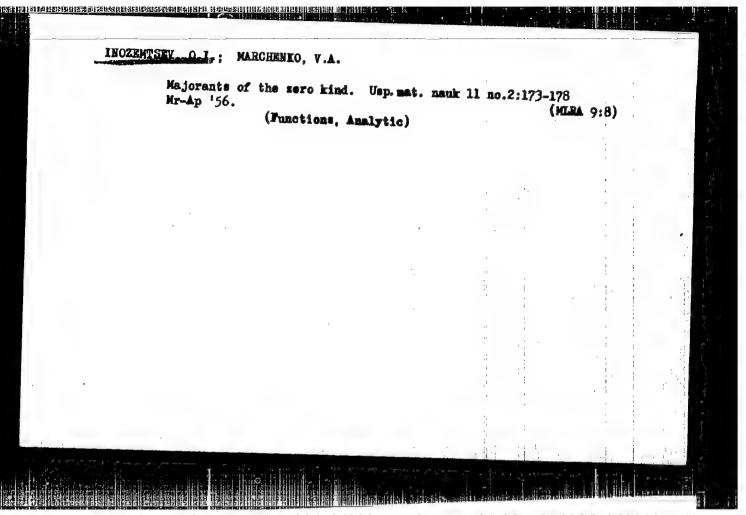
DAN SSSR, Vol 91, No 1, pp 15-18

Considers the space $C_{\rm phi}$ of continuous functions $f(x_1,\ldots,x_n)$ for a given weight function phi(x) in the special case where the weight functions are bounded in a certain manner by a single-variable function a(t) such that $\int_0^{0.0} \ln a(t) dt/(1+t^2)$ is bounded (i.e. less than infinity). Presented by Acad S. N. Bernshteyn 23 Apr 53.

266178



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620001-7"



16(1)
AUTHOR: Inozemtsev, 0.I. SOV/41-11-2-4/17

TITLE: Generalization of the Spherical Modulus of Continuity

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 155-162 (USSR)

ABSTRACT: For the continuous function $\varphi(x_1, ..., x_n) > 1$ (- $\infty < x_1 < \infty$) let $\varphi(x_1 + x_1, ..., x_n + x_n)$ $\varphi(x_1 + x_1, ..., x_n + x_n)$ $\varphi(x_1 + x_1, ..., x_n)$ let the norm by defined by $\varphi(x_1, ..., x_n)$ let the norm by defined by $\varphi(x_1, ..., x_n)$ $\varphi(x_1, ..., x_n)$ $\varphi(x_1, ..., x_n)$ $\varphi(x_1, ..., x_n)$ As a generalized spherical modulus of continuity for $f \in C_{\varphi}$ the author denotes

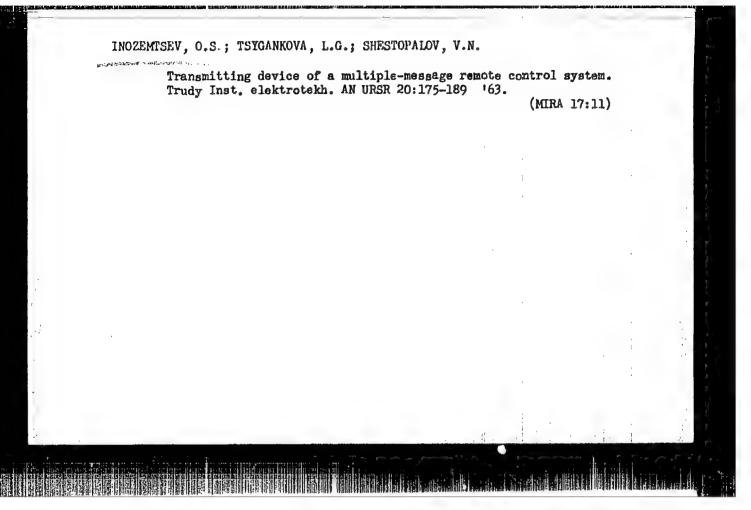
Card 2/3

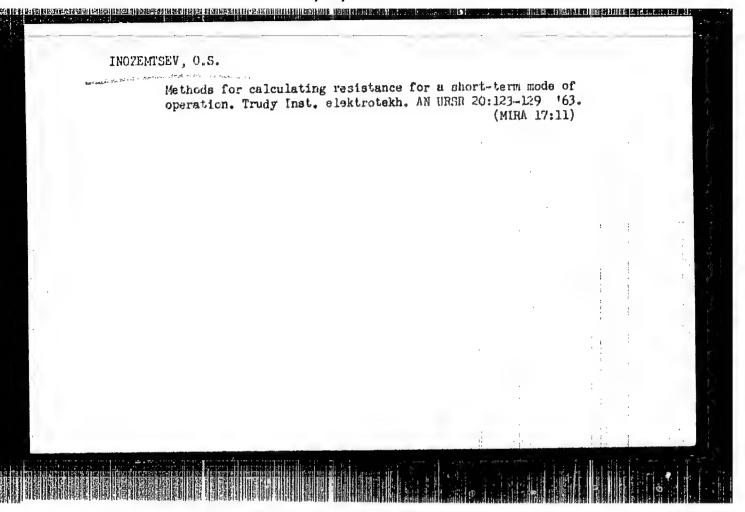
Generalization of the Spherical Modulus of Continuity SOV/41-11-2-4/17

and
$$\frac{1 \text{im}}{|z_1|^2 + \cdots + |z_n|^2} \frac{\ln |f(z_1, \dots, z_n)|}{\sqrt{|z_1|^2 + \cdots + |z_n|^2}} = 0.$$

The author mentions S.N.Bernshteyn, and V.A.Marchenko.
There are 7 references, 6 of which are Soviet, and 1 American.
SUBMITTED: June 13, 1958 (Khartkov)

Card 3/3





INOMEMISEV, P. P.

Coal Mines and Mining - Karaganda Basin

Coal miners of Karaganda suitably celebrate Miners' Day in 1952, Ugol', 27, 40, 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952 Unclassified.

INOXENTSEV. P., nachal'nik.

Innovators of the Karaganda basin. Mast. ugl. 2 no.7:3-4 Jl '53.
(MLBA 6:6)

1. Kombinat Karagandaugol'. (Karaganda—Coal mines and mining)

INCZENTSEV, P.P., nachal'nik.

Effectiveness of coal piling at the Karaganda coal mines. Mekh, trud.rab.
7 no.8:9-11 Ag '53.

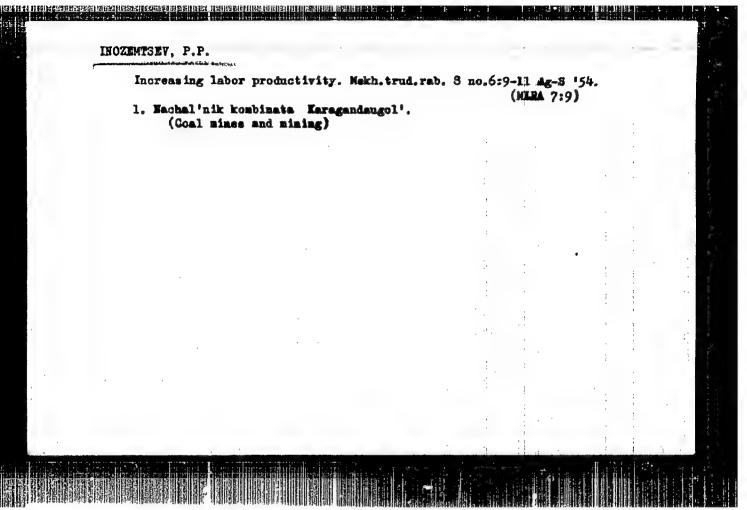
(Karaganda--Coal mines and mining)
(Coal mines and mining--Karaganda)

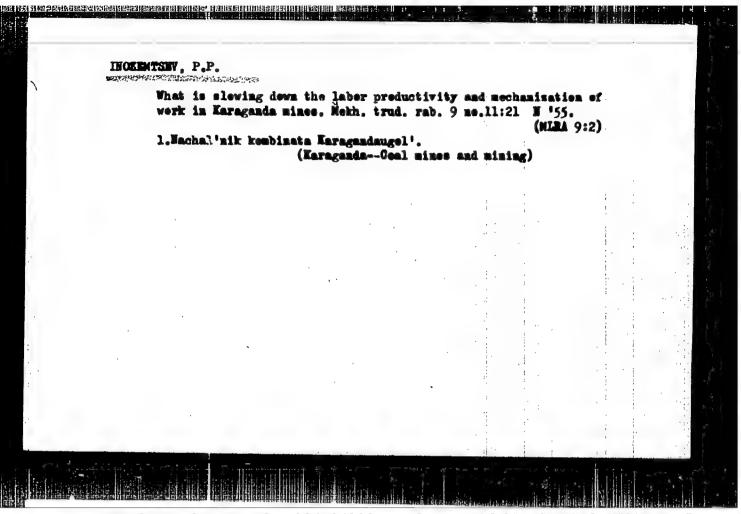
KOZHEVIN, V.G., nachal'nik; INOZECSTV.P.P., nachal'nik; BELHVISEV, T.N., upravlyayushchiy; GARYAZEV, V.V., upravlyayushchiy; GRACHEV, L.I., upralyayushchiy; KOHOVALOV, G.I., upravlyayushchiy; GILLER, A.I., nachal'nik; GUBIN, H.I., glavnyy inzhener.

The Soviet miners honor Miners! Day with new industrial victories.

Ugol! 28 no.8:5-15 Ag \$53. (MLRA 6:7)

1. Kombinat Kuzbassugol' (for Koshevin). 2. Kombinat Karagandaugol' (for Inosemtsev). 3. Trest Stalinugol' (for Belevtsev). 4. Trest Kalininugol' (for Grachev). 5. Trest Molotovugol' (for Grachev). 6. Trest Shchekinugol' (for Konovalov). 7. Shakhtoupravlenie No.9/12 trests Shchekinugol' (for Giller). 8. Shakhta No.34 trests Krasnoarmeyskugol' (for Gubin). (Goal mines and mining)



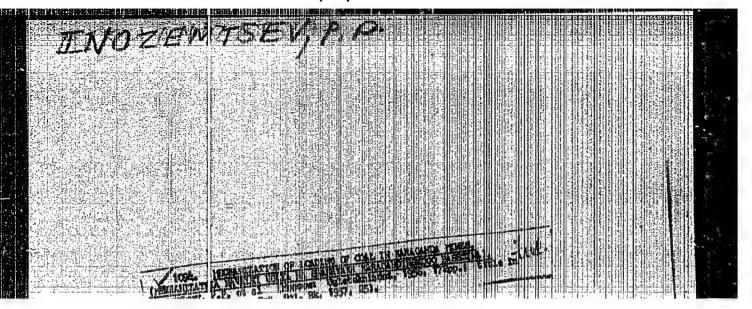


INOZEMTSEV, Pavel Petrovich; POLOZHIY, Fedor Mikhaylovich; SHNAYDHAN,
HARE 108170VICH; CHERKASSKIY, Feliks Boriscvich, LYUBOSHCHIESKIY,
Dmitrit Markovich; POZIN, Yevgeniy Zalomanovich; LEVIN, H.F.,
otvetstvennyy redaktor; ROLOMITTSEV, A.D., redaktor izdatel*stva;
KOROVENKOVA, Z.A., tekhnicheskiy redaktor

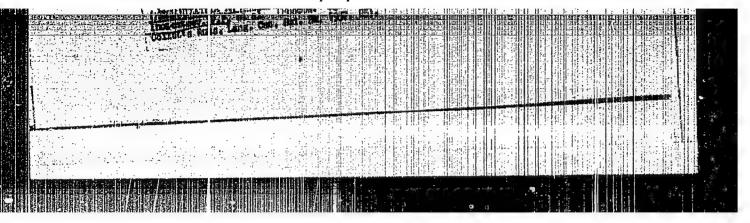
[Mechanization of coal loading in mines of the Maraganda Basin]
Mekhanizatsiia havalki uglia na shakhtakh Maragandinskogo ugolinogo basseina. Moskva, Ugletekhisdat, 1956. 171 p. (MIRA 9:9)
(Maraganda Basin--Coal mining machinery)

Reteraturas P. (172)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620001-7



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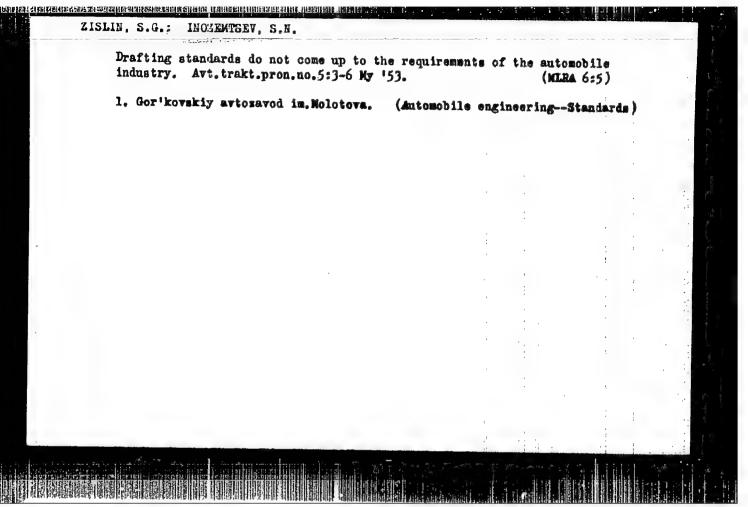
INOZEMISEV, S. N.

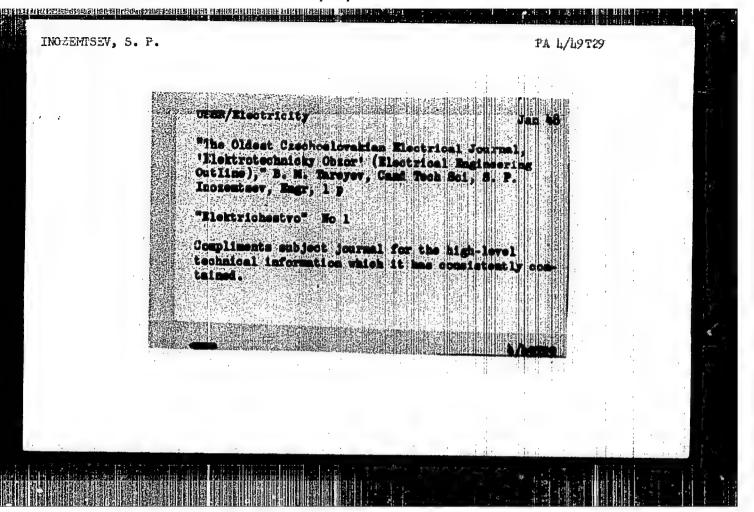
Dvigatel' GAZ-MK dlia kombaina. Izd. 2., stereotipnoe. Moskva, Sel'khozgiz, 1949. 94 p. illus.

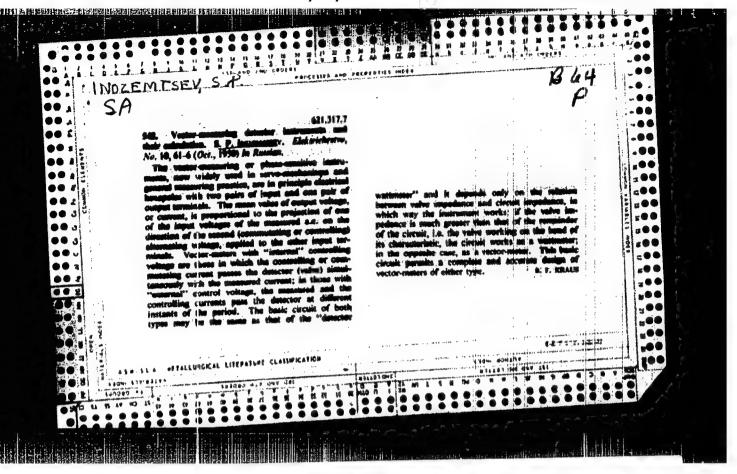
GAZ-MK engine for a combine.

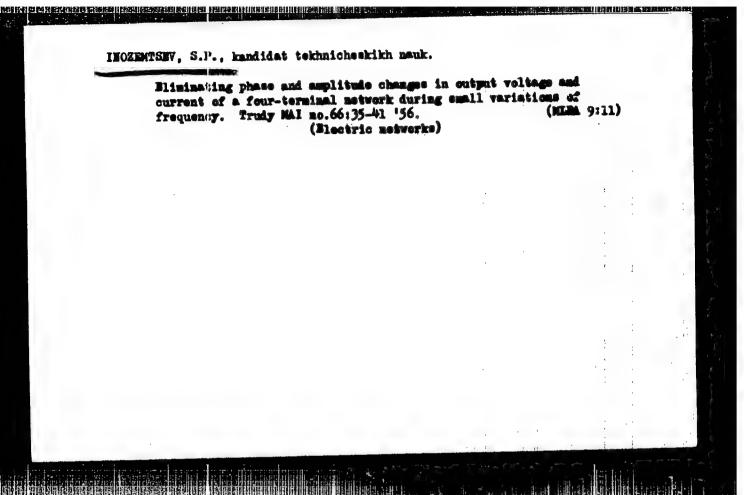
DIC: TJ1486.16 1949

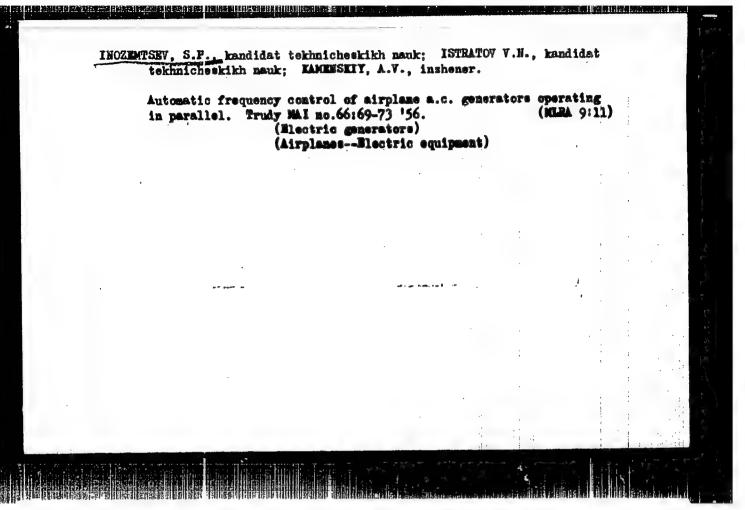
SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.











KCLOSOV, Sergey Petrovich; SOTSKOV, B.S., prof., doktor tekhn. nauk, retsensent; KRASOVSKIT, A.A., prof., doktor tekhn. nauk, retsensent; INCENTSWY. S.P., dots., kand. tekhn. nauk, red.; LOSSWA, G.F., red., ind-va; ROZHIN, V.P., tekhn. red.

[Elements of automatic equipment for aviation] Elements aviatsionnyth avtomaticheskikh ustroistv. Moskva, Oos. izd-vo obor, promyshl., 1958.

(MIRA 11:9)

(Airplanes—Equipment and supplies)

alat <mark>dia kacamatan kacamatan makamatan katan ana makamatan katan </mark>

KRYLOV, Viktor Aleksandrovich; SOLOVEY, Agniya Petrovna; ANISIMOV, M.G., inzh., retsenzenty INOZEMTSEV, S.P., kand. tekhn. nauk, red. BE-LEVISEVA, A.G., red. izd-va; SHCHERBAKOV, P.V., tekhn. red.

[Safety engineering in work on systems containing high-frequency and superhigh-frequency power generators] Bisopasnost' trude pri rabote na ustanovkakh s generatorami energii vysokikh i sverk sokikh chastot. Moskva, Gos. nauchno-tekhn. izd-vo Oborong:, 1961. 61. (MIRA 14:6) (Radio, Shortwave-Safety measures)

NECHAYEV, Georgiy Kuz'mich; UDALOV, Nikqlay Petrovich; INOZEMISEV, S.P.,
red.; BORUNOV, N.I., tekhn. red.

[Relays and transducers using semiconductor thermistors] Rele 1
datchiki s poluprovodnikovymi termosoprotivlenilami. Moskva,
Gos. energ. izd-vo, 1961. 108 p. (Biblioteka po avtomatike, no. 29)

(MRA 14:7)

(Transducers)

(Electric relays)

BERTINOV, Al'bert Losifovich; NACORSKII, V.D., doktor tekhn. nauk, prof.,
retsenzent; ZAVALISHIN, D.A., doktor tekhn. nauk, prof., retsenzent;
INOZEMISEY, S.P., kand. tekhn. nauk, red.; BELEVISEVA, A.G., red.
izd-va; SHCHERBAKOV, F.V., tekhn. red.

[Electric machinery in aeronatucal sutematic control systems]
Elektricheskie machiny aviatsiomoi avtomatiki. Moskva, Goe.
nauchno-tekhn. isd-vo Oborongis, 1961. 426 p. (MERA 14.9)

1. Chlen-korrespondent AN SSSR (for Zavalishin).
(Electronics in aeronatics) (Airplanes—Electric squipment)

🌉 in Linillathibidak Estatu i samut

S/204/62/002/004/018/019 E075/E435

AUTHORS:

Beer, A.A., Zagorets, P.A., Inozemtsev, V.F.,

Povkh, G.S., Popov, A.I.

TITLE:

Radio-chemical telomerization of olefines

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 617-623

TEXT: Additional data are presented on the telomerization between ethylene and carbon tetrachloride, and the reaction between tetrafluoroethylene and isopropylalcohol. The experiments were conducted in a thermostatically controlled autoclave at 16 to 100 atm pressure in the absence of oxygen. The ethylene - CCl₄ mixture was irradiated with γ -rays from Co⁶⁰ with the activity of about 350 g/equiv radium. The activity of the source for the C₂H₂F₄ - alcohol mixture was 120 g/equiv radium. The molar ratio C₂H₄ - CCl₄ was varied from 0.2:1 to 3.8:1 and the reaction was studied at 20, 50 and 100°C. It was established that the content of individual telomers in the reaction product is given by the following approximate equations

 $F_1 = \frac{c_1R}{c_1R+1}$; $F_2 = \frac{c_2R}{(c_1R+1)(c_2R+1)}$; $F_3 = \frac{c_3R}{(c_1R+1)(c_2R+1)(c_3R+1)}$ card 1/2.

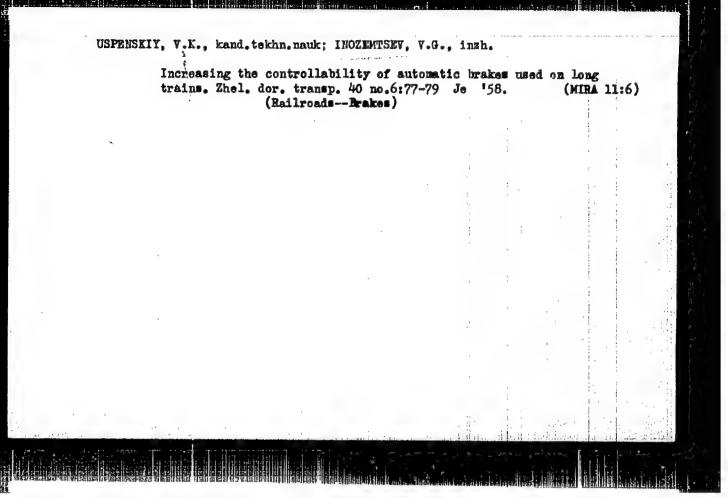
5/204/62/002/004/018/019 E075/E435

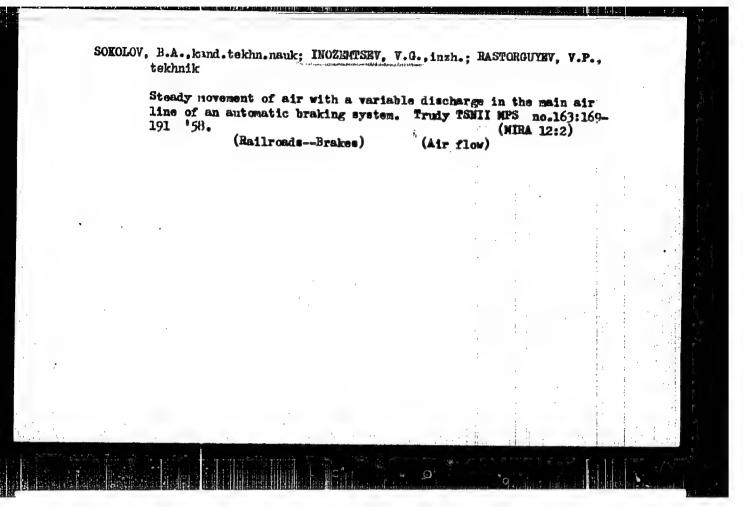
Radi-chemical telomerization ...

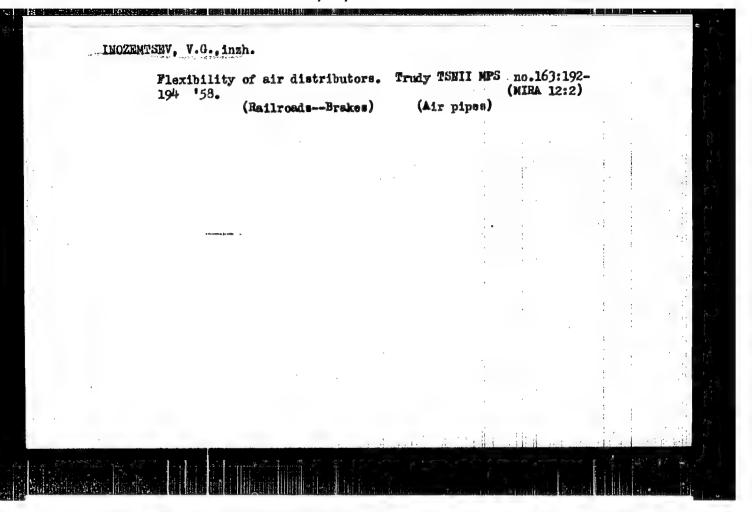
where F_n is the molar proportion of telemer with n electine residues, Cn - the chain transfer constant for the radical leading to the formation of telomer with n olefine residues and R - the molar ratio of telogen to olefine in the reaction mixture. When the ratio is changed from 3.8:1 to 0.2:1, a marked increase in the yield of tetrachloropropane is observed (from 3 to 5% to 63 to 100°C). The results were used in the development of radiochemical plant with an output of 8 kg/hour of tetrachloroalkanes with Co source activity of about 15000 g/equiv radium in a reactor of 0.5 m³ volume and 800 mm in diameter. Telomerization between C2H2F4 and lower alcohols was studied at room temperature. radio-chemical yield decreases in the series propanol-2 > butanol-1 > ethanol > butanol-2 > methanol. conditions were selected so as to eliminate completely the There are 4 figures formation of high molecular weight compounds. and 2 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. Mendeleyeva (Moscow Institute of Chemical Technology imeni Mendeleyev)

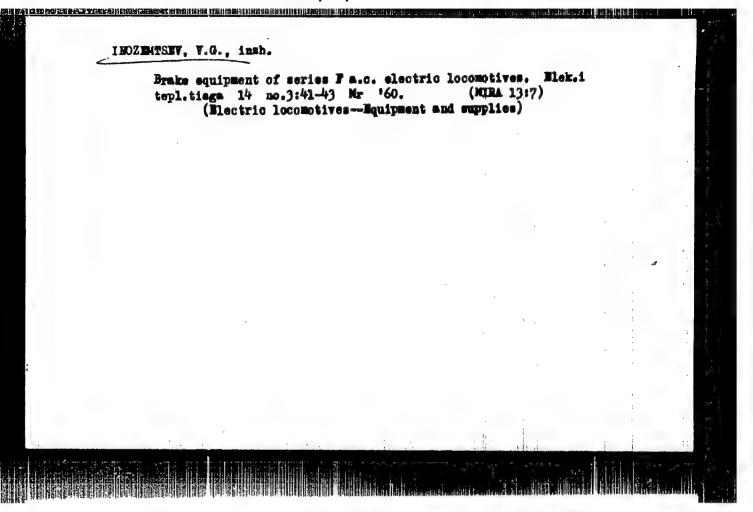
Card 2/2

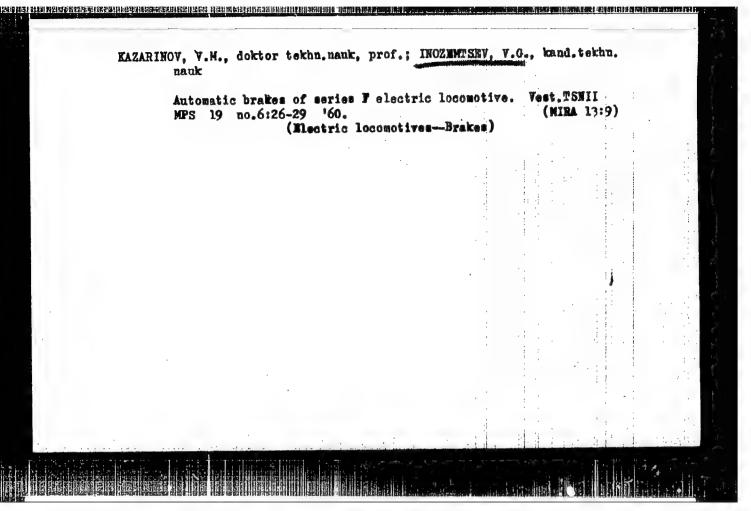




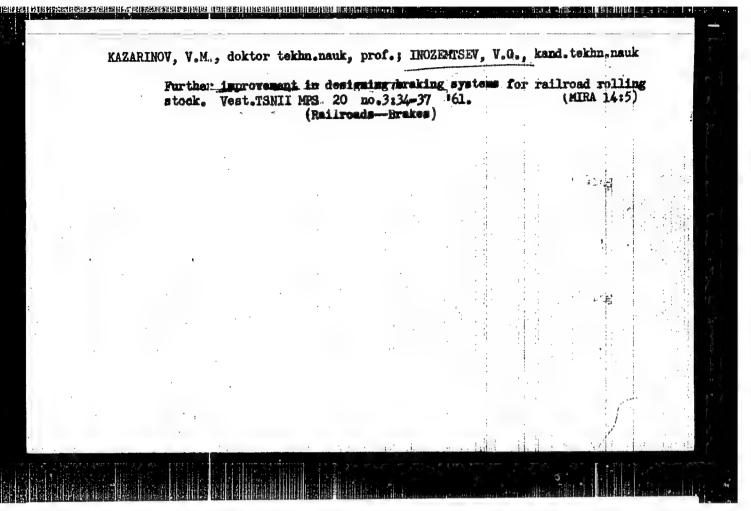


INOZEMTSEV, V. G.: Master Tech Sci (diss) -- "Investigation of braking processes, and recommendations for increasing the control of automotive braking processes". Moseow, 1959. 17 pp (Min Transportation USSR, All-Union Sci Res Inst of Railroad Transport), 150 copies (KL, No 9, 1959, 115)





Increasing the operational reliability of automatic brakes. Zhel. dor.transp. 42 no.11:27-30 N '60. (MIRA 13:11) (Railroads--Brakes)



35566 8/081/62/000/006/112/117 B110/B101

15.9701 AUTHORS:

Vinitakiy, L. Ye., Inosemtsev, V. G., Prokof'yeva, V. L.

TITLE:

Cold-resistant rubbers made from synthetic Soviet caoutohoucs

for the bladders of automobile brake systems

PERIODICAL:

Referativnyy shurnal. Khimiya, no. 6, 1962, 695, abstract 6P583 (Tr. Vses. n.-i. in-ta zh.-d. transp., no. 212, 1961, 157 - 163)

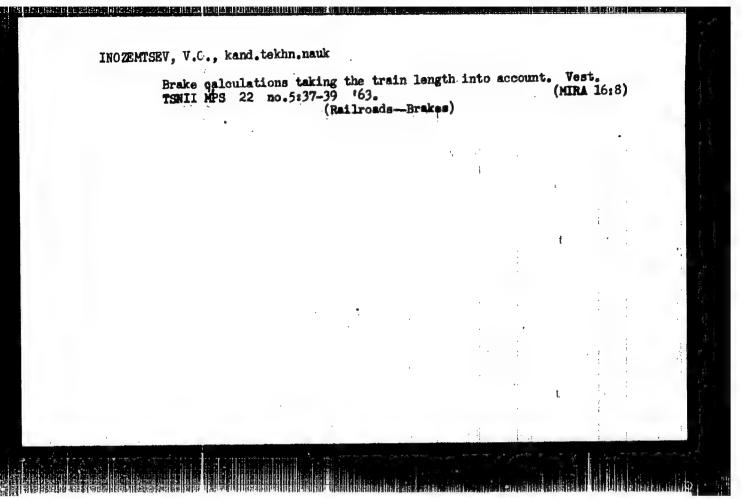
TEXT: Rubbers made from CKH-18 (SKN-18) and CKC-10 (SKS-10) and combinations of these were tested between -60° and 50°C for cold and oil resistance. They all had a higher coefficient of cold resistance than the polychlorophen caoutchoug rubbers previously used for bladders. Bladders made from SKS-10 had about the same flexure at -70°C as at 20°C. Rubbers made from SKN-18 had poorer flexibility at low temperatures, but better oil resistance. The properties of rubbers made of an SKS-10/SKM-18 combination were intermediate, combining good resistance to cold and to oil. [Abstracter's note: Complete translation.]

Card 1/1

GRINIO, Vyacheslav Adol'fovich; KRYLOV, Vladimir Ivanovich; OZOLIN,
Aleksardr Karlovich; INOZENTSEV, V.G., kand. tekhn.neuk,
red.; VOROTNIKOVA, L.F., tekhn.red.

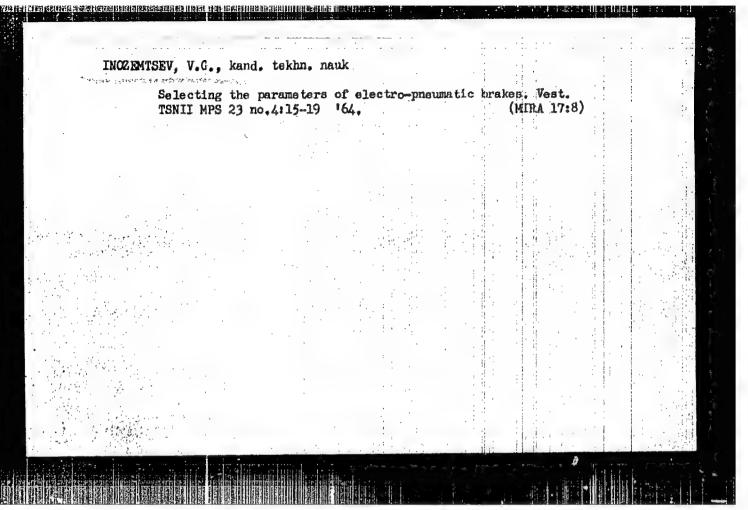
[Engineer's valves]Krany mashinista. Ind.2., dop. Moskva,
Transzheldorizdat, 1962. 74 p. (HIRA 15:11)

(Iocomotives—Valve-gears)



VINITSKIY, L.Ye., kand.tekhn.nauk; INOZEMTSEV, V.G., kand.tekhn.nauk; PROKOF'YEVA, V.L., inzh.

Elastic rubber packing for brake equipment. Vest. TSNII MPS
23 no.1:11-13 '64. (MIRA 17:4)



INOZEMISEV. V.G., kand. tekhn. nauk; SERAFIMOVICH, V.S., kand. tekhn. nauk

Efficiency of braking when using the automatic provisory No.536 regulator. Vest. TSNII MPS 24 no.8:14-16 '65.

(MIRA 19:1)

SOV/121-58-10-4/25

AUTHOR:

Vinogradov, B.P.,

BOWNEL CHECKEN AND ALL THE PROPERTY OF THE PERFORMANCE OF THE PERFORMA

Inozemtsev. V.I.

TITLE:

Hydraulic Presses for the Manufacture of Electrically Welded High Pressure Tubes (Gidravlichyeskiye pressy dlya izgotovleniya elektrosvarnykh trub vysomy: davleniya)

PERIODICAL: Stanki i Instrument, 1958, Nr 10, pp 15-17 (USSR)

ABSTRACT:

The welded steel tube production line of the Chelyabinsk Tube Rolling Mill (Chelyabinskiy truboprokatnyy zavod) is based on a newly developed technique of bending the tube from strip in 12 m lengths. The cut strip is first bent into a shallow channel with rounded flanges. Then the channel is folded to produce an oval section with flat sides which is subsequently formed into a round slotted tube. The edges are brough together for welding, after which the tube is calibrated by expansion, straightened, heat-treated and tested. The bending operations are

Card 1/2

carried out on standardized hydraulic presses after planing and bevelling the edges of the strip.

SOV/121-58-10-4/25

Hydraulic Presses for the Manufacture of Electrically Welded High Pressure Tubes

design and working of the presses are described in detail, with special emphasis on a new calibrating, straightening testing machine. The tubes are expanded to size by cold work through internal pressure. The machine is largely automatic and handles seventeen tubes per hour of 720 mm diameter. All the presses were designed by the Central Design Office for Press Forming Machinery (Tsentral nove proyektno-konstruktors-koye byuro kuznechno-pressovogo mashinostroyeniya) and manufactured by the Kolomna Heavy Machine Tool Works (Kolomenskiy Zavod Tyazhelogo stankostroyeniya). There are 4 illustrations including 3 photos.

Card 2/2

SHABALIN, A.Te., inzh.; INCZMTSEV. T.P.; ANTONOV, L.I.

Concerning the textbook "Eafety engineering and fire prevention in the paper industry" by V.F. Makeimov. Reviewed by A.B. Shabalin, V.P. Incsembsev, L.I. Antonov. Bum, prom. 33 no.2:30-31 V '58.

1. Tekhnicheskiy inspektor Leningradskogo oblprofesovata (for Incsembsev). 2. Inshemer po tekhnike besopasnosti Svetogorskogo taellyulosno-bumashnogo kombinata (for Antonov).

(Raper industry—Briety measures)

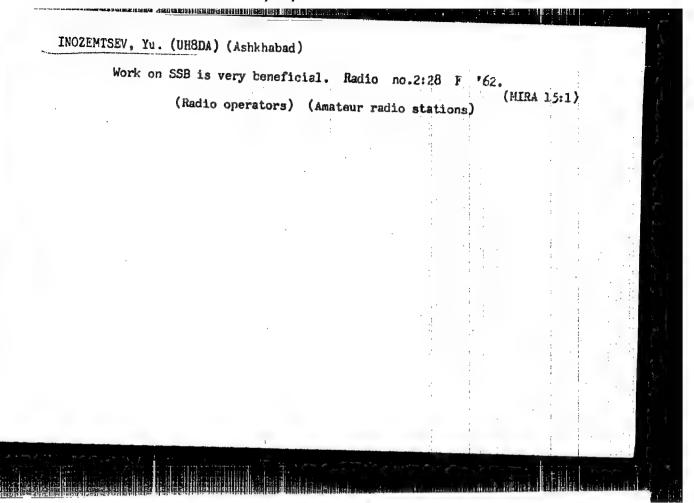
(Factories—Fires and fire prevention)

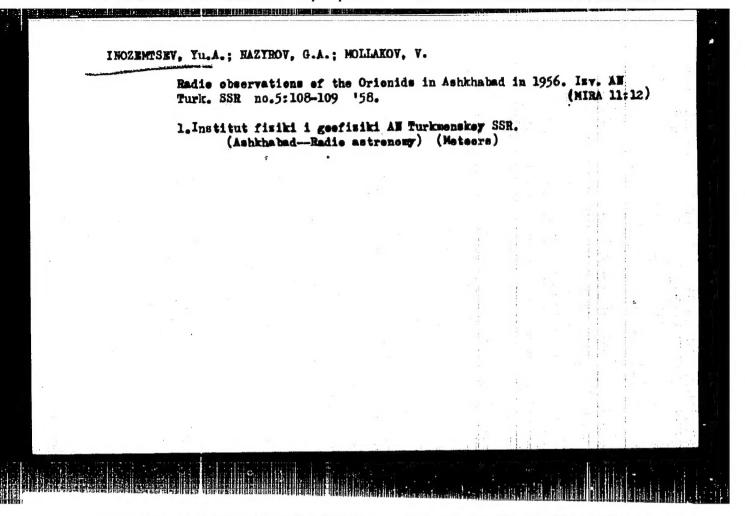
(Makeimov, V.F.)

1. FOMENKO, -A.N.	INOZEMTSEV.	Ye	K.
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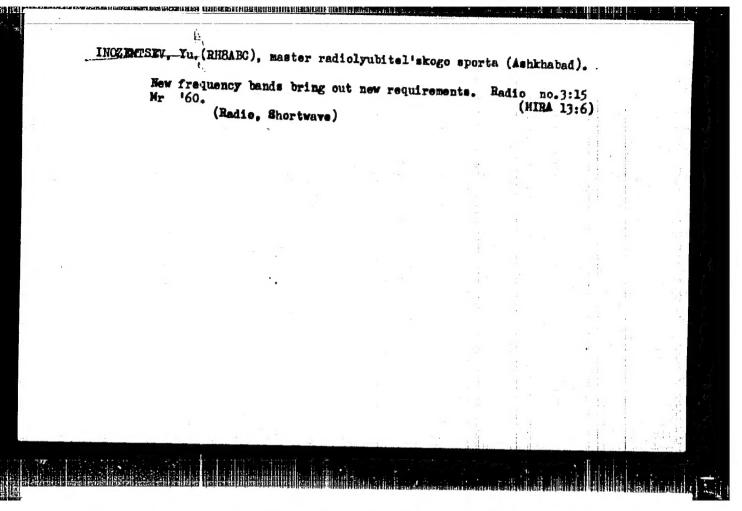
- 2. UBSR (600)
- 4. Lignite Bolgrad District
- Geological report on the results of the propecting carried by the Ismail and Kagul Lignit
 parties in 1940-1941 (Abstract) Izv.Glav.upr.geol.fon. no.2 1947

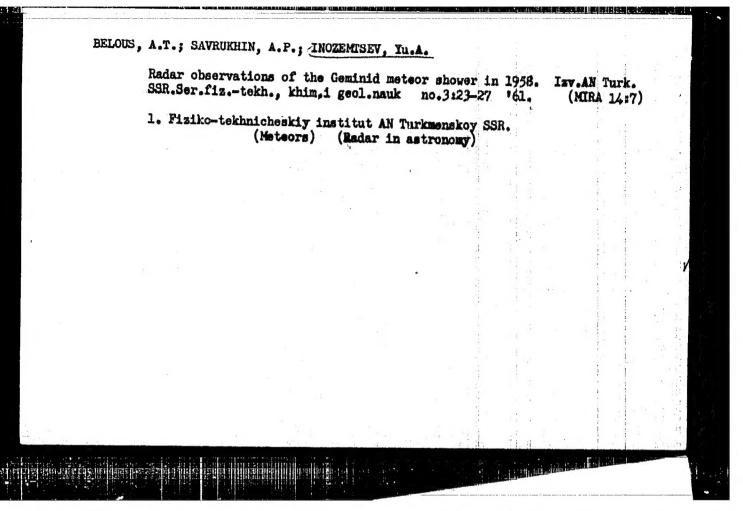
9. Monthly List of Bussian Accessions. Library of Congress. March 1953. Unclassified.





APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620001-7"





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5/831/62/000/008/009/016
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                     Belous, A.T., Gul'medov, Kh.D., Inozemtsev, Yu.A.,
Lyubarskiy, K.A., Kalyakina, M.I. and Sadykov, Ya.F.
      3.1220
      3.1230
      3,1710
                      Meteor observations at Ashkhabade
                       Ionosfernyye issledovaniya (meteory). Sbornik
      AUTHORS:
                       statey, no. 8. V razdel programmy MGG (ionosfera).

Mezhduved. Seofiz. kom. AN SSSR. Moscow, Izd-vo AN
       TITLE
                       The Astrofizicheskaya laboratoriya IFG AN Turkmenskoy
       SOURCE
        SSR (Astrophysics Laboratory IFG AS Turk SSR) has carried out
        systematic studies of meteors during the IGY with a view to
         obtaining observational material under the following three main
         headings: 1) mateor activity as an ionizing factor in the
         neadings: 1/ mateor activity as an ionizing lactor in the atmosphere; 2) determination of the density and height of the
         homogeneous atmosphere; 3) determination of wind distribution in
 ť
          the upper atmosphere from observations of meteor-trail drift.
 Ω
          The observations were carried out visually (with and without
          telescopes), photographically and by radar. In addition, there
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          telescopes, photographically and by radar. In addition, there were spectral observations of meteors and telescopic observations
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West
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Card
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                                            above the horizon, facing
                                       months of the IGY, 6216 radio
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